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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/550,161	09/20/2005	Fulvio Costa	033965.007	5232
	7590 07/25/2007 BRELL & RUSSELL	•	EXAMINER	
SUITE 3100, P	ROMENADE II		AUSTIN, AARON	
1230 PEACHTREE STREET, N.E. ATLANTA, GA 30309-3592			ART UNIT	PAPER NUMBER
711111111111111111111111111111111111111			1775	
		,		
			MAIL DATE	DELIVERY MODE
			07/25/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/550,161	COSTA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Aaron S. Austin	1775				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,						
WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUM 36(a). In no event, however, may will apply and will expire SIX (6), cause the application to become	JNICATION. By a reply be timely filed MONTHS from the mailing date of this communication. BY ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>28 June 2007</u> .						
,—						
•	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) <u>1-7</u> is/are pending in the application.						
4a) Of the above claim(s) <u>2-7</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
•	6) Claim(s) <u>1</u> is/are rejected.					
7) Claim(s) is/are objected to.	r alaction requirement					
8) Claim(s) are subject to restriction and/o	r election requirement					
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>20 September 2005</u> is/are: a)⊠ accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interv	iew Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper	No(s)/Mail Date e of Informal Patent Application				
3) Nnformation Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 20070 إنا 100 كان المحافظة ا	, harring	:				

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DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of Group I, claim 1 in the reply filed on 6/28/07 is acknowledged.

Specification

Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

The abstract of the disclosure is objected to because the abstract was submitted as the front page of the International Application Publication rather than in a single paragraph on a separate sheet of paper. Correction is required. See MPEP § 608.01(b).

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Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In particular, "dimensions equal to or lower than 500 microns" are claimed without defining the dimensions in relation to the article itself.

It is unclear as to whether the claimed dimensions relate to a width, height, length, or other formation on the article itself. The terms "complete isotropy" in conjunction with the dimension limitations appears to designate that the article is measured the same in all directions (length, width, and height), however this does not appear to be the case from the disclosure as length, width and height have different values (see Fig. 1). In an alternative interpretation of the term "isotropy", the term is used as known in the field of optics to designate a refractive index of a crystal that does not vary with crystallographic direction. If this is the meaning intended by Applicant, the dimensions claimed remain indefinite as failing to identify what dimensions are being specified as noted above.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 is rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Nogues (WO 93/21120).

Nogues teaches an optical article including hyperfine features below 500 microns in at least one dimension. The sol-gel glass forming the article may be produced from silicate compositions (including pure silica), optionally with the addition of other oxides (page 5, lines 24-25).

Nogues does not appear to identify the article as having an almost complete isotropy. However, as like materials are used in a like manner to that taught by applicant, the article taught by Nogues is expected to have the characteristics claimed.

In the alternative, it would have been obvious to one of ordinary skill in the art to form the article of Nogues having almost complete isotropy as this results in an optical article having a refractive index that does not vary with crystallographic direction. This is particularly advantageous in the field of optics as retardation of transmitted light is prevented leading to greater versatility of the article. If the term "complete isotropy" is directed to the physical dimensions of the article (see the 112 rejection above), it would further be obvious to form the article in the necessary dimensions for the intended use as like materials are used in a like manner, namely optical applications.

Claim 1 is rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Lorenzo et al. (EP 0705797 A2).

Lorenzo teaches an optical article of final or nearly final dimensions comprising silicon oxide and/or other mixed oxides. The article undergoes isotropic dimensional reduction and thus has almost complete isotropy. The article also has a roughness of less than 0.1 micrometers (Example 2), and thus dimensions of equal or less than 500 micrometers.

In an alternative interpretation, Lorenzo does not stipulate the article is has almost complete isotropy, however it would be obvious to one of ordinary sill in the art to form the article having nearly complete isotropy as this would lead to a more complete isotropic dimensional reduction as taught is desirable by the reference.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aaron S. Austin whose telephone number is (571) 272-8935. The examiner can normally be reached on Monday-Friday: 7:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jennifer McNeil can be reached on (571) 272-1540. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ASA

JOHN J. ZIMMERMAN PRIMARY EXAMINER